

Amendments to the Specification

Amend the paragraph beginning at page 6, line 21, to correct a typographical error, as follows:

It will be appreciated by those skilled in the art that the designed proteins described herein can be encoded by nucleic acid sequences. Nucleic acid sequences encoding protein sequences generated by the methods of the invention may be placed in various eukaryotic or prokaryotic host cells and expressed by techniques known in the art. A variety of expression vectors and host cells may be used to obtain quantities of designed proteins. While small proteins may preferably be synthesized, larger designed proteins for which significant samples are desired may utilize an optimized protein sequence of the invention to create a nucleic acid such as DNA encoding said optimized sequence which can be conveniently cloned into a suitable host cell and expressed. Nucleic acids, particularly DNA, encoding optimized protein sequences may conveniently be made by use of materials and methods well known in the art. The choice of the various codons, expression vectors, methodology, and use of host cells, including both microbial and animal or plant systems, can conveniently be optimized as required. Also, as will be appreciated by those in the art, the designed proteins of the invention have a variety of applications ranging from large scale industrial uses, to various consumer products, to various pharmaceutical uses. In addition, those skilled in the art will appreciate and will be able to construct and maintain appropriate combinatorial libraries of designed proteins of the invention which may conveniently be selected and utilized for various applications.